

Work Order ID 163851

Monday, July 10, 2017 11:59:35 AM

163851

Page 1

Item ID: D066-1002-011 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: R66 Cargo Mirror
 Start Date: 7/13/2017 Start Qty: 2.00 ***2*** Cust Item ID:
 Required Date: 7/20/2017 Req'd Qty: 2.00 ***2*** Customer:

Reference:

Approvals: Process Plan: **DAS 21** Date: 17-07-28 Tooling: _____ Date: _____
 QC: **9-89** Date: _____ SPC (Y/N): _____ Date: _____
 Run Start ***NR1***
 Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D066-1002	B	DAS 6 9-89							
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPPD066-1002-011		CHG 001						
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.06							
Quality Control									

2 **DAS 28** **9-89** **AUG 01 2017**

2 **DAS 6** **9-89** **JUL 28 2017**

2 **DAS 28** **9-89** **AUG 01 2017**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

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Page 2

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Item ID: D066-1002-011 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: R66 Cargo Mirror
 Start Date: 7/13/2017 Start Qty: 2.00 *2* Cust Item ID:
 Required Date: 7/20/2017 Req'd Qty: 2.00 *2* Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130*	Identify as per dwg & Stock Location Packaging	0.00				2	DAS 28 9-89		AUG 01 2017
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D066-1002-011 Location: _____ PPP Rev: _____								
140 *140*	QC21- Final Inspection - Work Order Release	0.00							
QC	Memo	0.20					DAS 21 9-89		AUG 01 2017
Quality Control									

DAS
21
9-89
AUG 01 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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		OTHER : ☐																							

Picklist Print

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Page 1

Work Order ID: 163851

163851

Parent Item: D066-1002-011

D066-1002-011

Parent Item Name: R66 Cargo Mirror

Start Date: 7/13/2017

Required Date: 7/20/2017

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A NEW ISSUE 13-10-30 JLM VERIFIED BY:DD IPP
REV:B 13.12.03 AS PER IIN REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2010-104 *D2010-104* ARM		Manufactured	No			110	Each	1.0000	1 **	2		DAS 6 9-89 JUL 28 2017	

Location	Loc Qty	Loc Code
ST351	1	B163312
156194	1	
D2011-101 *D2011-101* Mirror 6"		
Manufactured	No	
	110	Each
	51.0000	2
	**	

Location	Loc Qty	Loc Code
FG	3	
106348	1	
158473	2	
ST371	28	
160663	28	2
ST384	20	
158473	1	
159140	19	

D3243-041	Manufactured	No	110	Each	6.0000	2
D3243-041						**
Bracket						
DAS 28 9-89						
	<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>	
	ST486		6			
	159864		6			2

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

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OTHER : _____																																																															

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Work Order ID: 163851

163851

Parent Item: D066-1002-011

D066-1002-011

Parent Item Name: R66 Cargo Mirror

Start Date: 7/13/2017

Required Date: 7/20/2017

Start Qty: 2.00

Required Qty: 2.00

D4936-1

Manufactured No

110

Each

8.0000

8

D4936-1

Clamp

DAS
28
9-89

**

JUL 28 2017

Location

Loc Qty

Loc Code

ST139

8

162148

8

ALS4-1032-130

AELS4-1032-130 Purchased

No

110

Each

6,474.000

8

ALS4-1032-130

Rivnut

Location

Loc Qty

Loc Code

CCK004

5000

M137820

5000

FG

100

FG

M135442

50

M136579

50

FP001

1221

M133077

3

M136579

1218

st555

153

M136579

153

AN3-4A

Purchased

No

110

Each

188.0000

8

AN3-4A

Bolt

DAS
28
9-89

**

JUL 28 2017

Location

Loc Qty

Loc Code

ST350

188

m137478

188

DAS
28
9-89

JUL 28 2017

DQA: _____ Date: _____

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Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date : 05 JUL		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
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Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 163851

163851

Parent Item: D066-1002-011

D066-1002-011

Parent Item Name: R66 Cargo Mirror

Start Date: 7/13/2017

Required Date: 7/20/2017

Start Qty: 2.00

Required Qty: 2.00

AN3-11A

Purchased

No

110

Each

146.0000

8

AN3-11A

Bolt

**DAS
28
9-89**

Location

Loc Qty

Loc Code

over003

100

m136192

100

ST349

46

153855

46

NAS1149D0332J

Purchased

No

110

Each

1,686.000

16

NAS1149D0332.J

Washer

**DAS
28
9-89**

Location

Loc Qty

Loc Code

FP

177

m136015

8

m137075

169

GA

272

m136643

272

ST260a

1000

m137963

1000

ST264

237

m137736

237

JUL 20 2017

JUL 20 2017

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

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OTHER : ☐					

5. PARTS LIST

Qty	Part Number	Description
X	D066-1002-011	CARGO MIRROR INSTALLATION
1	*D2010-104	Arm
1	*D2011-101	Mirror
1	*D3014-1	Locknut
1	ID3243-041	Bracket
4	ID4936-1	Clamp
4	*ALS7-1032-130	Insert (or AKS7-1032-130, AKS4-1032-130, ALS4-1032-130)
4	*AN3-4A	Bolt
4	*AN3-11A	Bolt
8	*NAS1149D0322J	Washer
1	*NAS1149D0416J	Washer

* PARTS ARE INCLUDED WITH D2011-101 MIRROR



Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH13-44

Issue No.: 1

Approval Date: November 29, 2013

Issue Date: November 29, 2013

Responsible Office:

Prairie and Northern

Aircraft/Engine Type or Model:

ROBINSON R66

Canadian Type Certificate or Equivalent:

H-111

Description of Type Design Change:

Cargo Mirror Installation

**Installation/Operating Data,
Required Equipment and Limitations:**

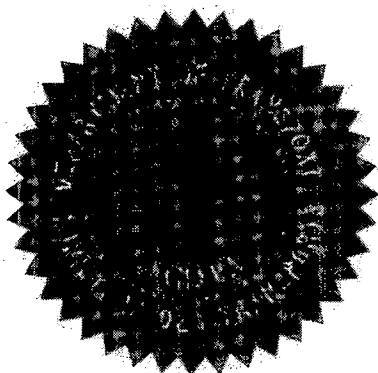
Cargo Mirror Installation is to be in accordance with Transport Canada Civil Aviation (TCCA) approved Dart Aerospace Ltd. Installation Instructions IIN-D066-1002 Revision B, dated November 13, 2013 or later TCCA approved revision.

Instructions for Continued Airworthiness contained in Dart Aerospace Ltd. document ICA-D066-1002 Revision 0, dated November 07, 2013, or later TCCA accepted revision are required with this installation.

Definition of the Type Design Change: TCCA approved Dart Aerospace Ltd. Master Document List MDL-D066-1002 Revision A, dated November 13, 2013 or later TCCA approved revision.

Basis of Certification for affected areas: Airworthiness Manual 527 at change 527-8 which is equivalent to 14 CFR Part 27 at Amendment 27-44.

— End —



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated will not adversely affect the airworthiness of the modified product.

Greg Oucharek
For Minister of Transport

Canada